

1. (Currently Amended) A gene transfer vector which contains

a) a transgene and

b) a nucleic acid sequence coding for a CD34 surface marker or a fragment of the same or a variant of the same, wherein
~~characterized in that the surface marker is the CD34 surface antigen or a fragment of the same or a variant of the same~~ said surface marker or fragment or variant is
identifiable by a CD34 detection method.

2. (Currently Amended) The vector according to claim 1, wherein ~~characterized in~~

C1 ~~that the nucleic acid sequence codes for a surface marker comprising in accordance with SEQ ID NO:2, 4 or 6, or for a fragment of SEQ ID NO:2, 4 or 6, or for a variant of the same~~ SEQ ID NO:2, 4 or 6, said fragment or variant being identifiable by a CD34 detection method.

3. (Currently Amended) The vector according to Claim 1, wherein ~~characterized in~~

~~that the nucleic acid sequence comprises codes for the surface marker is the sequence indicated in SEQ ID NO: 1, 3 or 5, or for a fragment of SEQ ID NO: 1, 3 or 5, a mutant of SEQ ID NO: 1, 3 or 5, or a variant of SEQ ID NO: 1, 3 or 5~~ the same, said fragment or mutant or variant coding for an amino acid sequence which is identifiable by a CD34 detection method.

4. (Currently Amended) The vector according to Claim 1, ~~wherein characterized in that it~~ the vector is a retroviral vector.

5. (Currently Amended) The vector according to Claim 1, further comprising a second ~~characterized in that it contains a~~ nucleic acid sequence coding for a ~~further~~ second surface marker.

6. (Previously Amended) A vector with the accession no. DSM 13396.

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7. (Currently Amended) A vector ~~characterized in that it contains~~ comprising a nucleic acid sequence coding for an amino acid sequence ~~the amino acid sequence~~ ~~according to~~ comprising SEQ ID NO:6, or for a fragment of SEQ ID NO:6, or for a variant of ~~the same~~ SEQ ID NO:6, wherein said fragment or variant is identifiable by a CD34 detection method.

8. (Currently Amended) A vector ~~according to claim 7, characterized in that it~~ ~~contains the~~ comprising a nucleic acid sequence ~~according to~~ comprising SEQ ID NO:5, or a fragment of SEQ ID NO:5, or a mutant of SEQ ID NO:5, or a variant of the same of SEQ ID NO:5, wherein said fragment or mutant or variant codes for a CD34 surface marker which is identifiable by a CD34 detection method.

9. (Currently Amended) An isolated host cell, ~~characterized in that it is~~
~~transduced with~~ comprising a vector according to Claim 1.

10. (Currently Amended) The isolated host cell according to claim 9, wherein
said host cell ~~characterized in that it is~~ a human cell.

11. (Currently Amended) The isolated host cell according to claim 10, wherein
said cell ~~characterized in that it is~~ a T-lymphocyte.

Claims 12-34 (Canceled).
